

# COVID-19 Modeling Update

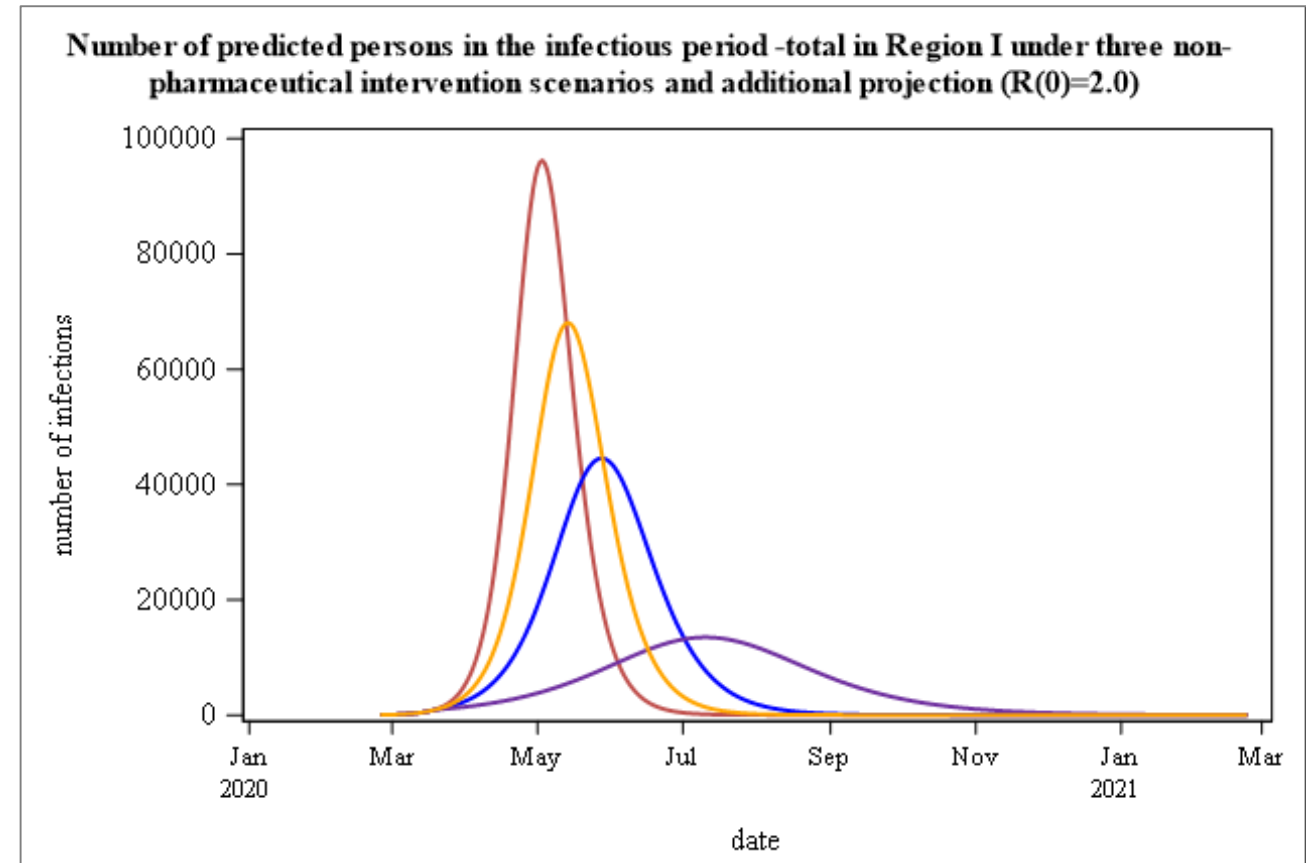
April 16, 2020

All Regions



# Region 1: Infectious persons per day under four scenarios

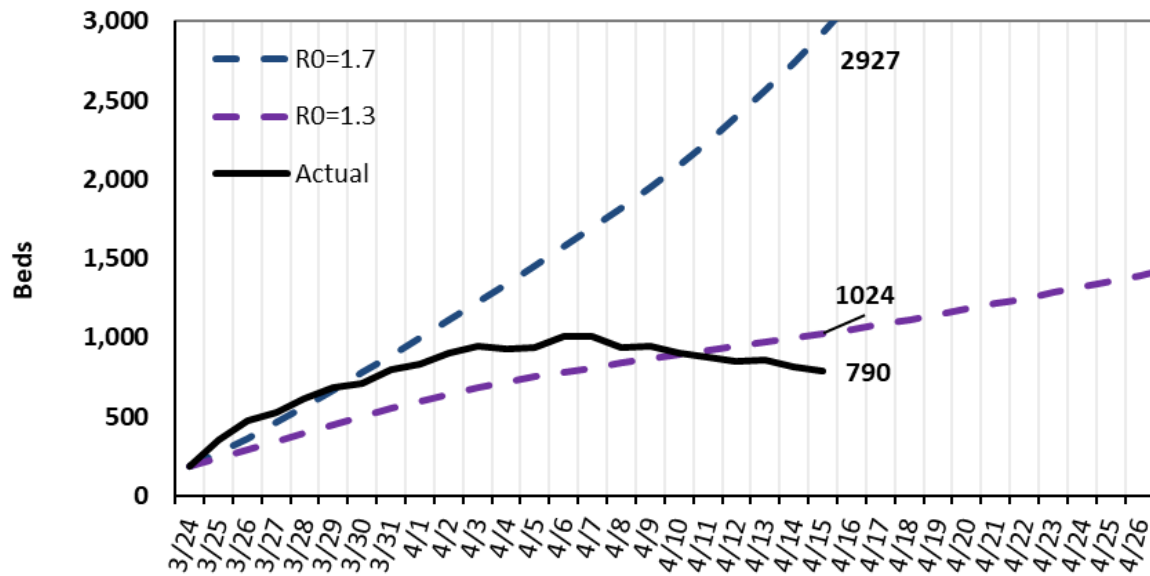
- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

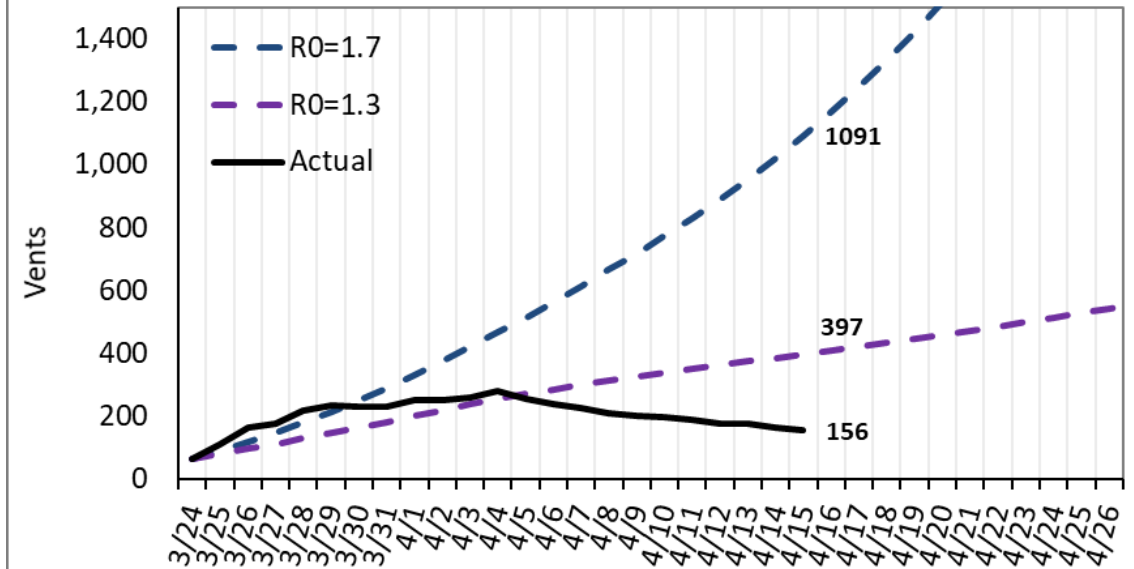
# Hospitalization/Vent Projections – Region 1

R1: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R1: COVID+ on vent



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

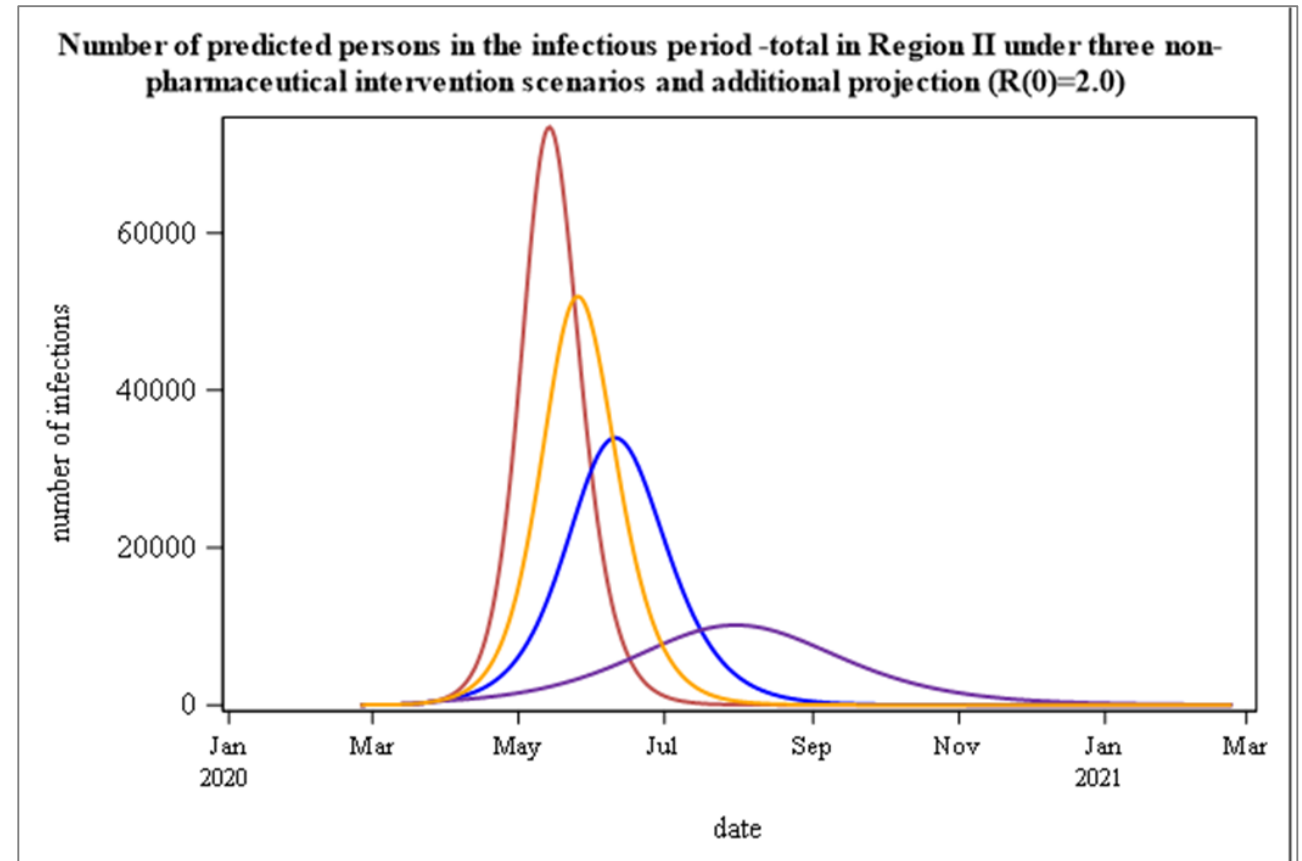
\*Actual COVID+ hospitalization and COVID+ on vent lines may be an undercount because it does not include COVID PUIs (persons under investigation).

For example, on 4/15 there were an additional **305 COVID PUIs** in the hospital and **30 COVID PUIs** on vents in Region 1.

# Region 2:

## Infectious persons per day under four scenarios

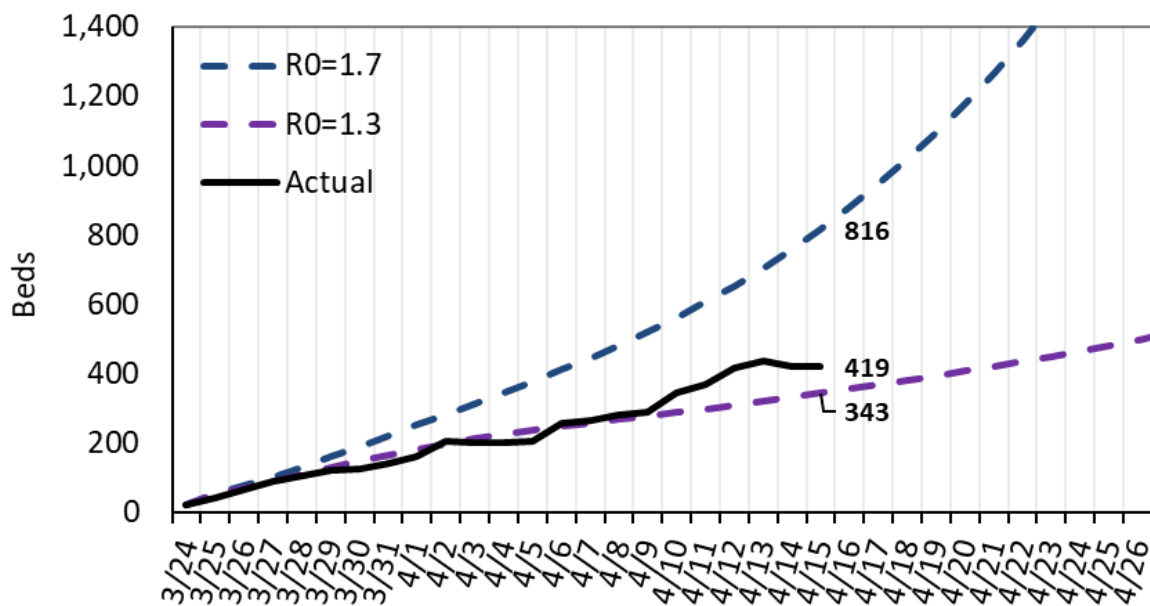
- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

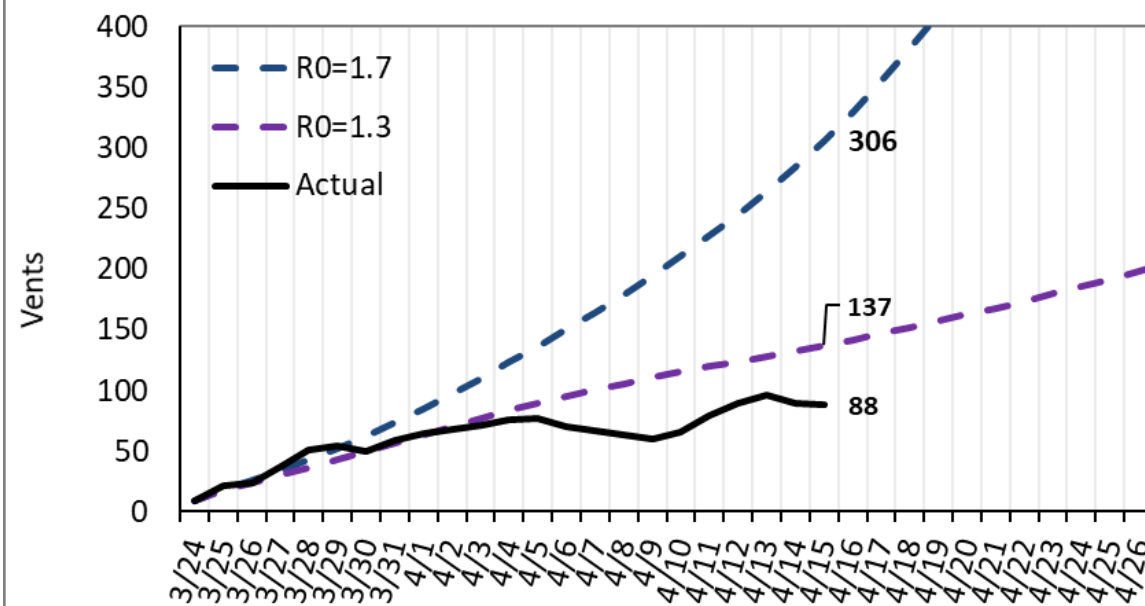
# Hospitalization/Vent Projections – Region 2

R2: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R2: COVID+ on vent

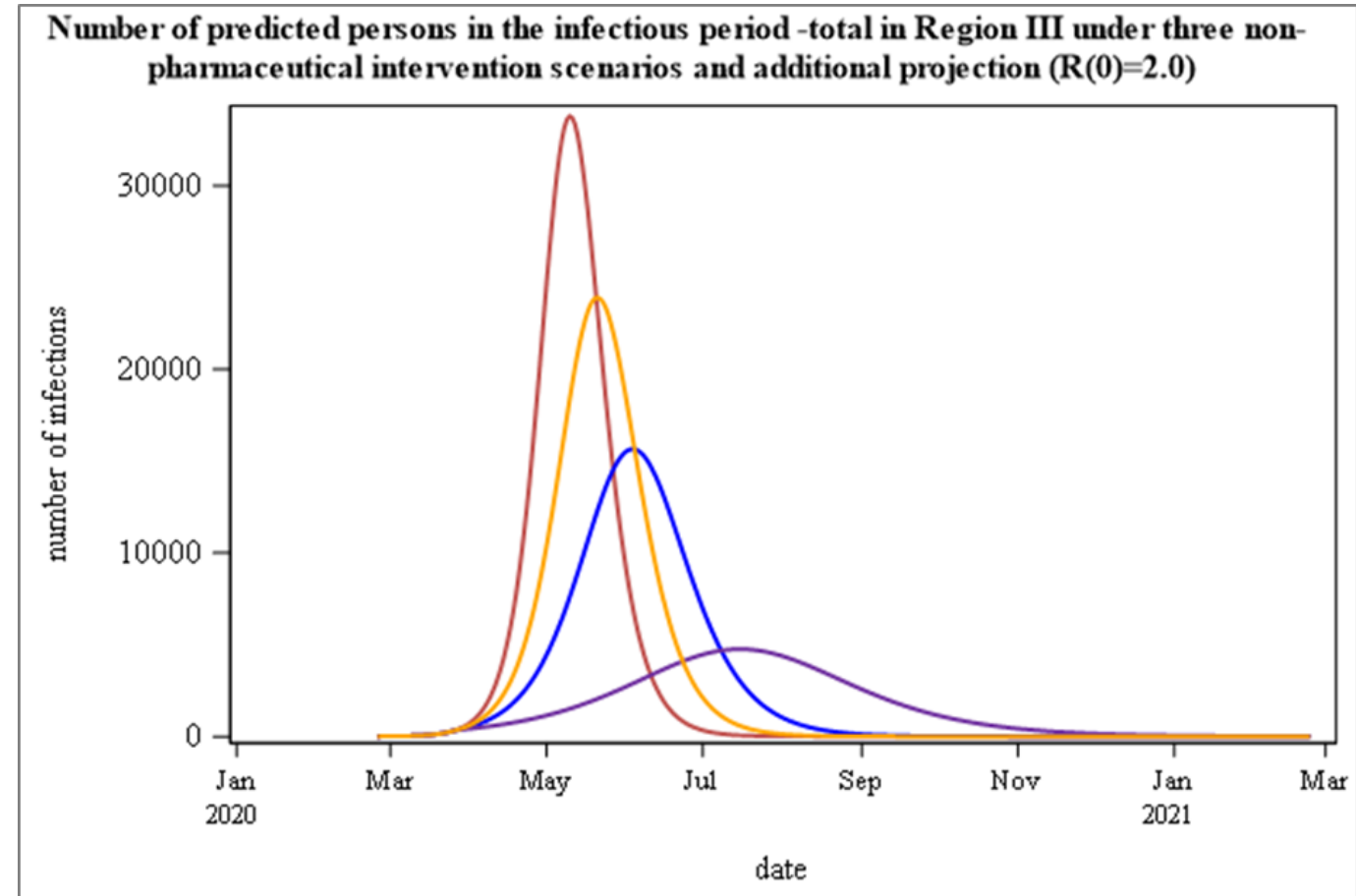


\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

\*Actual COVID+ hospitalization and COVID+ on vent lines may be an undercount because it does not include PUIs. For example, on 4/15 there were an additional **128 COVID PUIs** in the hospital and **8 COVID PUIs** on vents in Region 2.

# Region 3: Infectious persons per day under four scenarios

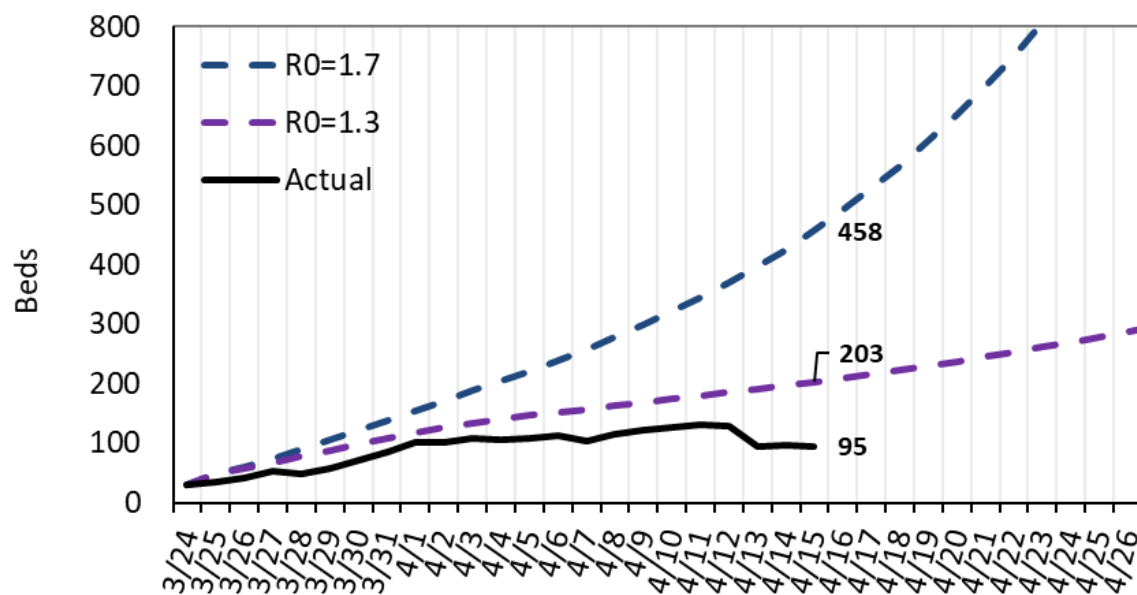
- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

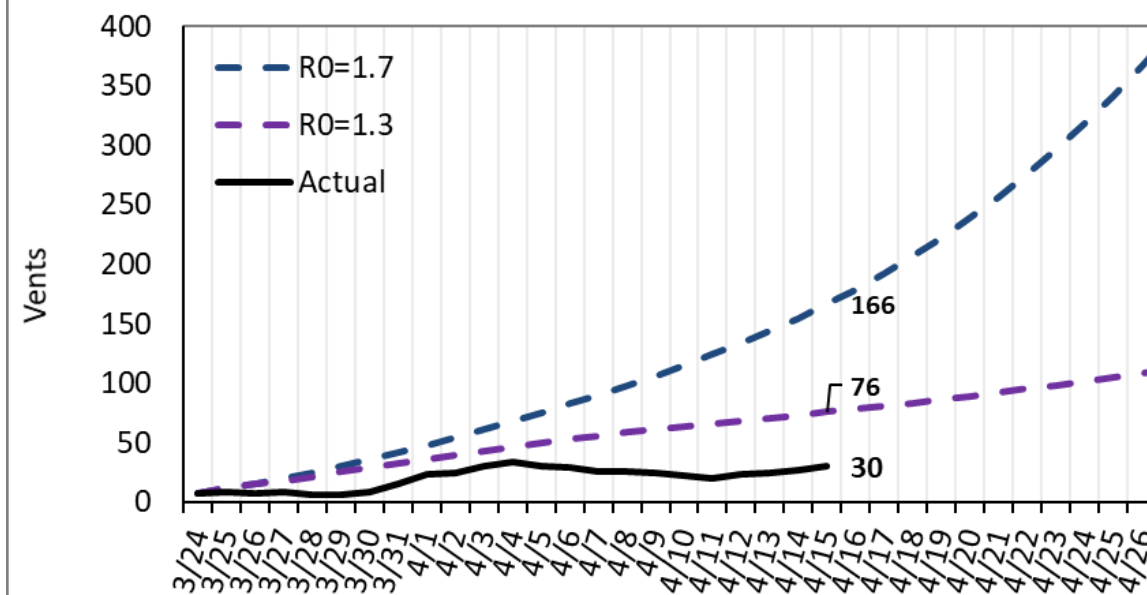
# Hospitalization/Vent Projections – Region 3

R3: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R3: COVID+ on vent



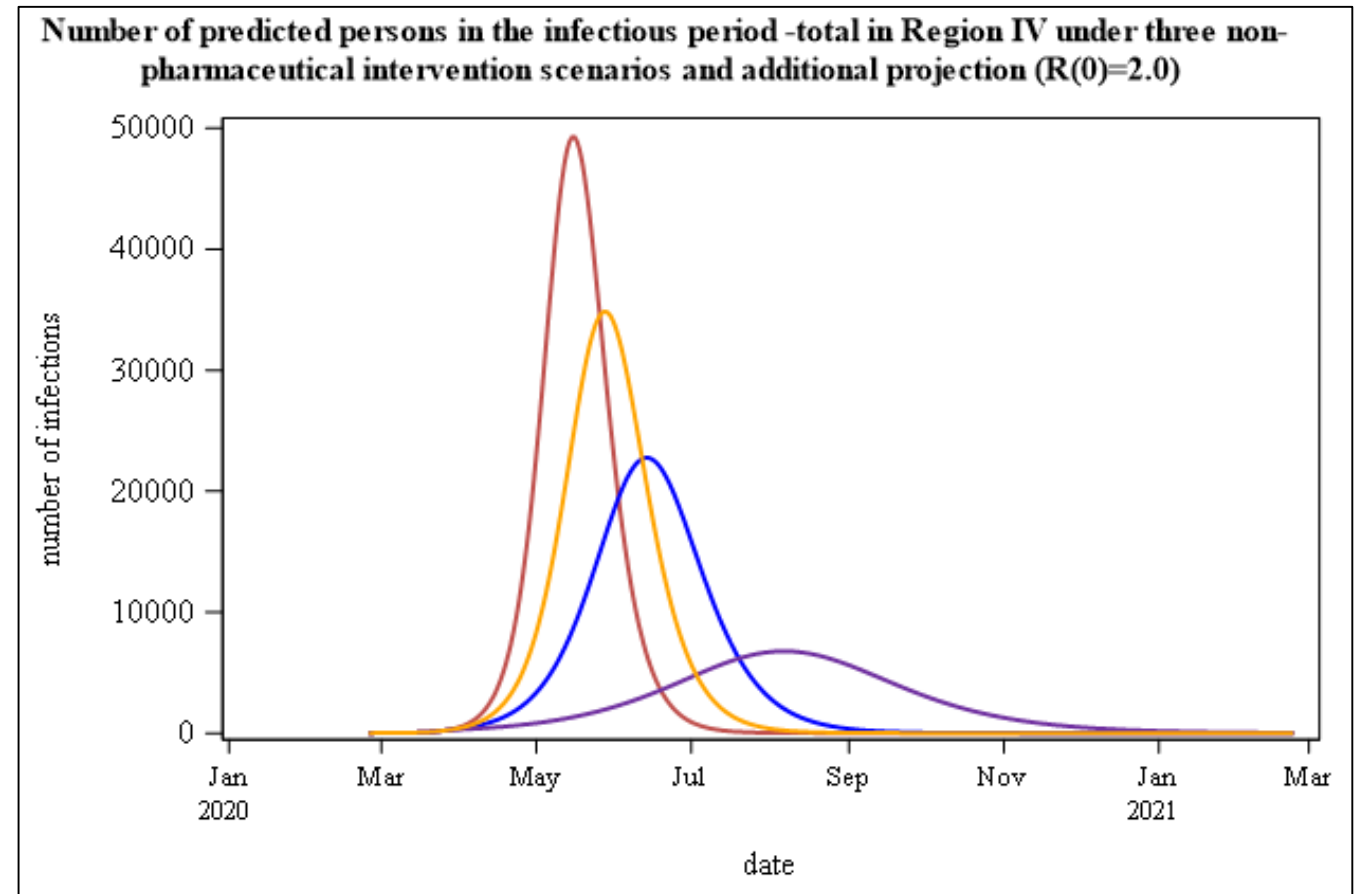
\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

\*Actual COVID+ hospitalization and COVID+ on vent lines may be an undercount because it does not include PUIs. For example, on 4/15 there were an additional **73 COVID PUIs** in the hospital and **2 COVID PUIs** on vents in Region 3.

# Region 4:

## Infectious persons per day under four scenarios

- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)

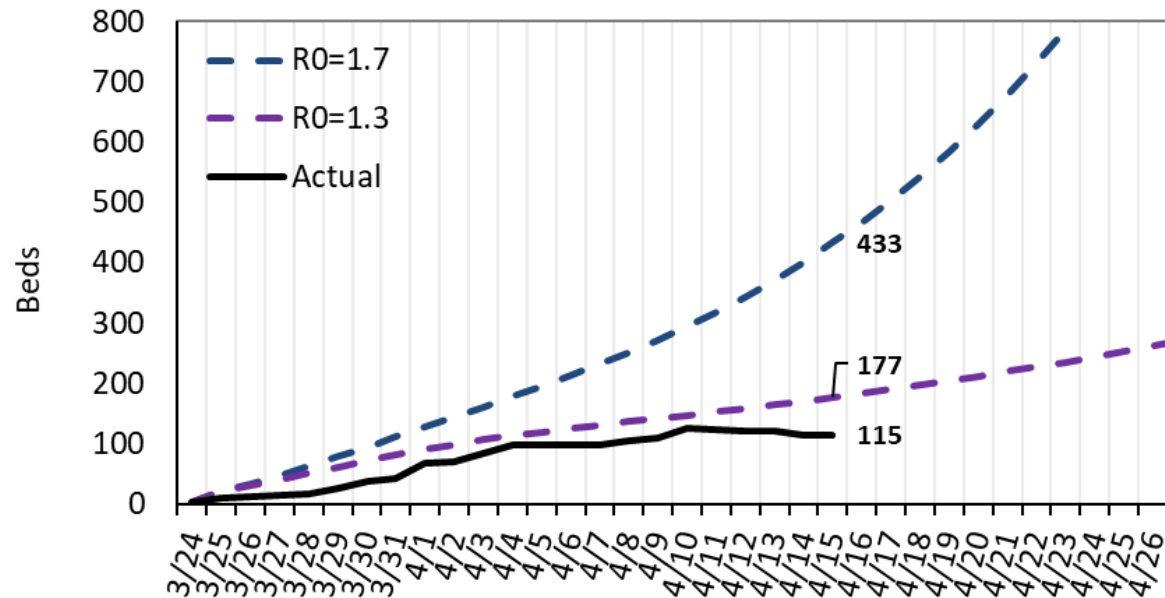


Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.



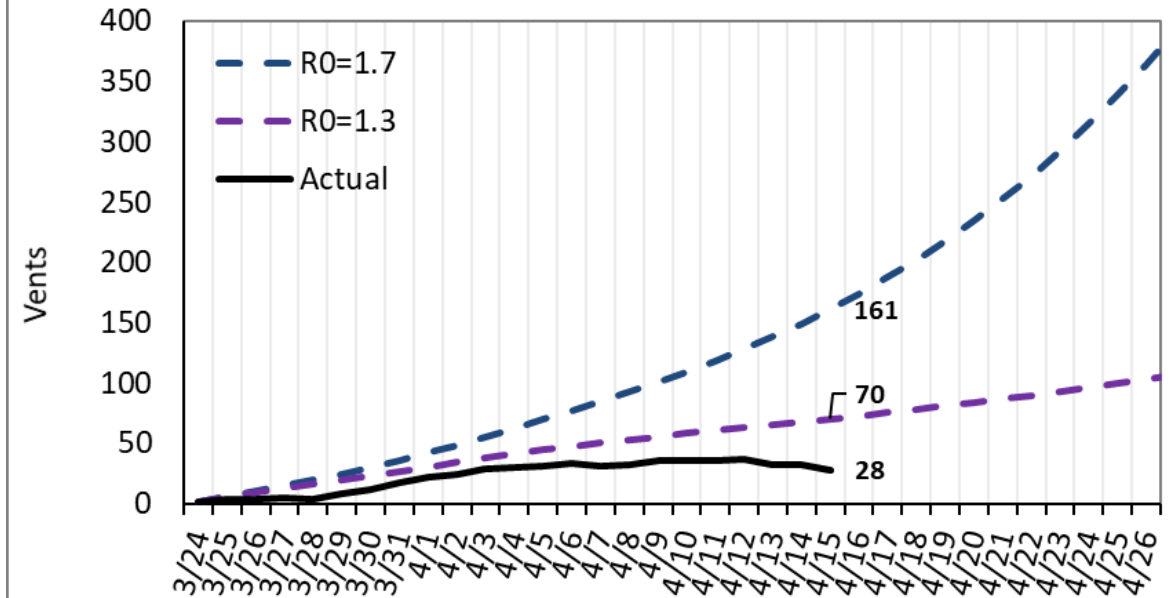
# Hospitalization/Vent Projections – Region 4

R4: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R4: COVID+ on vent

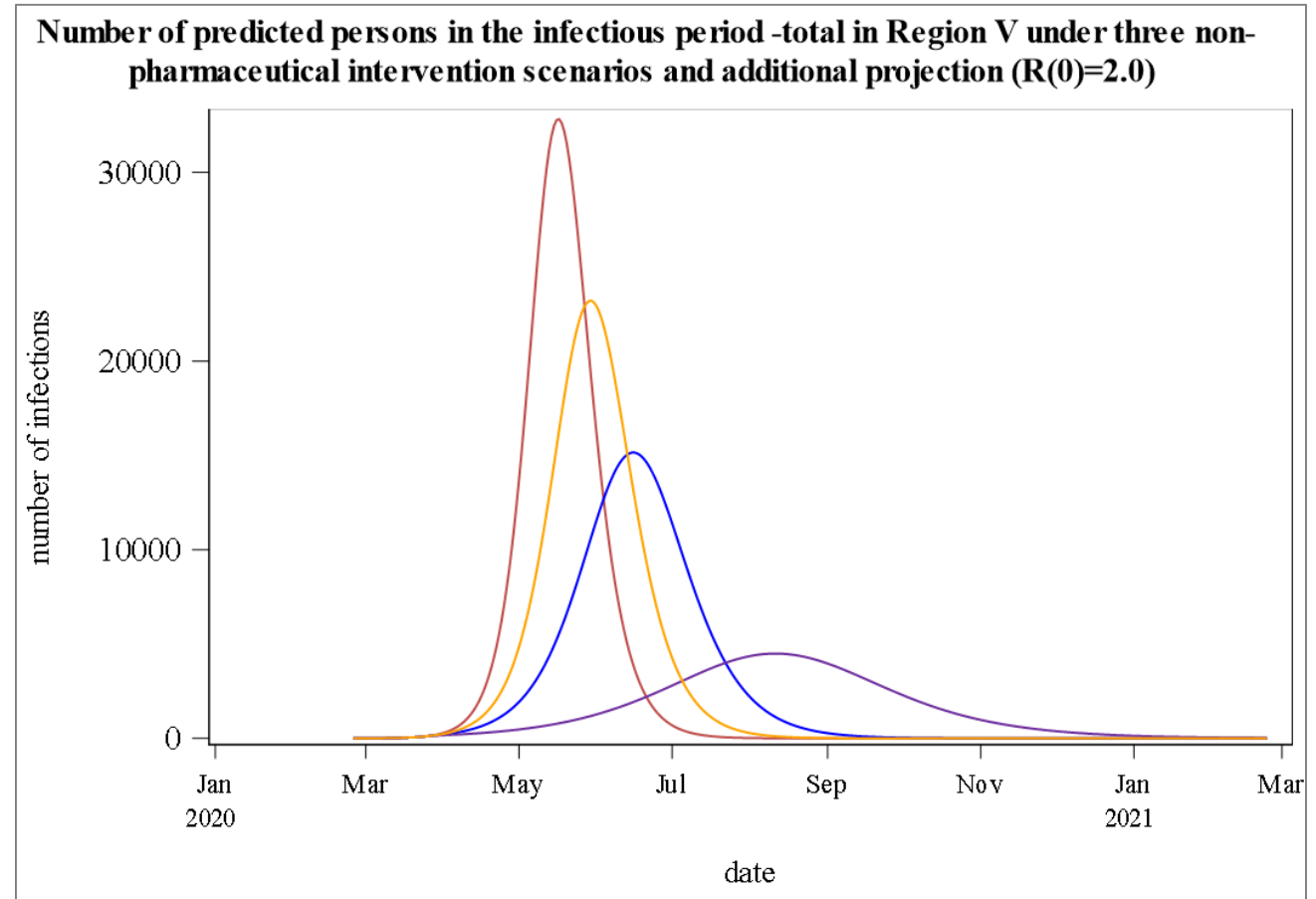


\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

\*Actual COVID+ hospitalization and COVID+ on vent lines may be an undercount because it does not include PUIs. For example, on 4/15 there were an additional **50 COVID PUIs** in the hospital and **3 COVID PUIs** on vents in Region 4.

# Region 5: Infectious persons per day under four scenarios

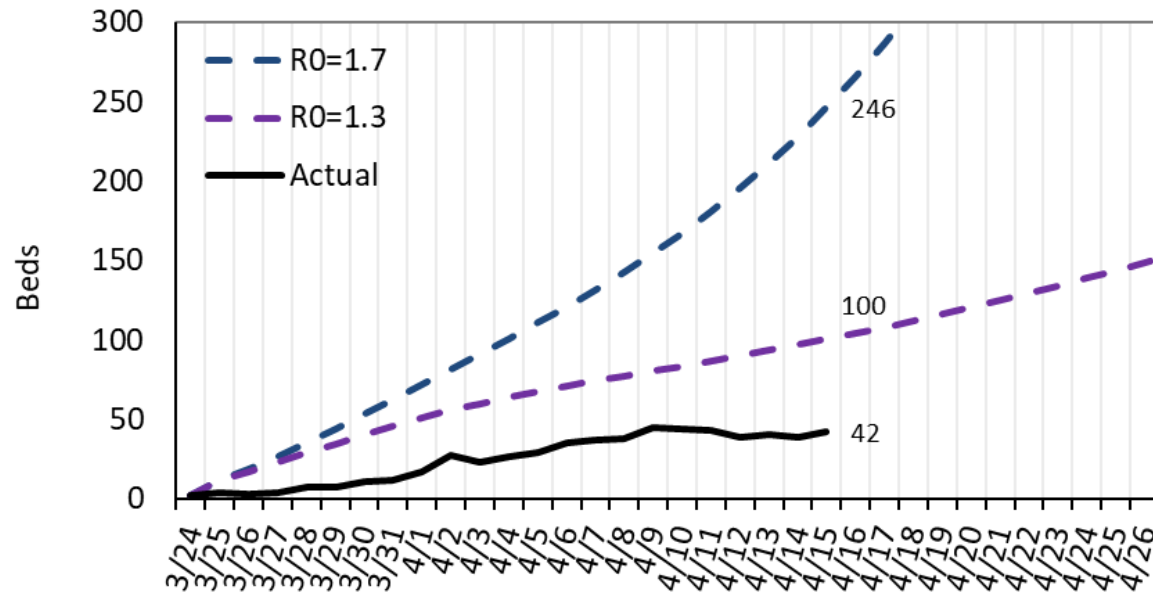
- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

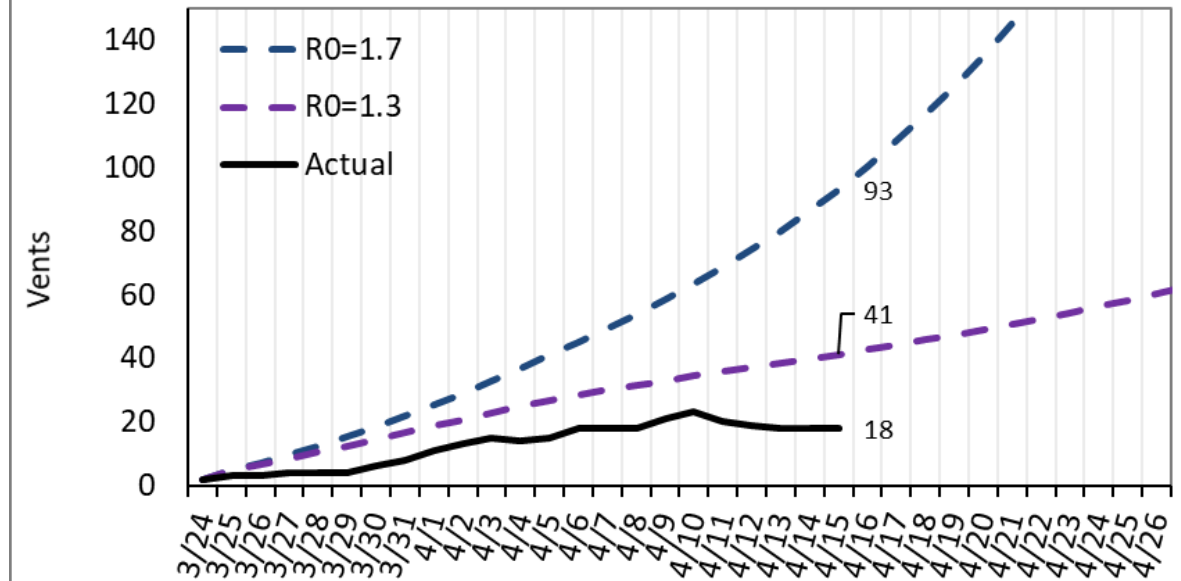
# Hospitalization/Vent Projections – Region 5

R5: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R5: COVID+ on vent



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

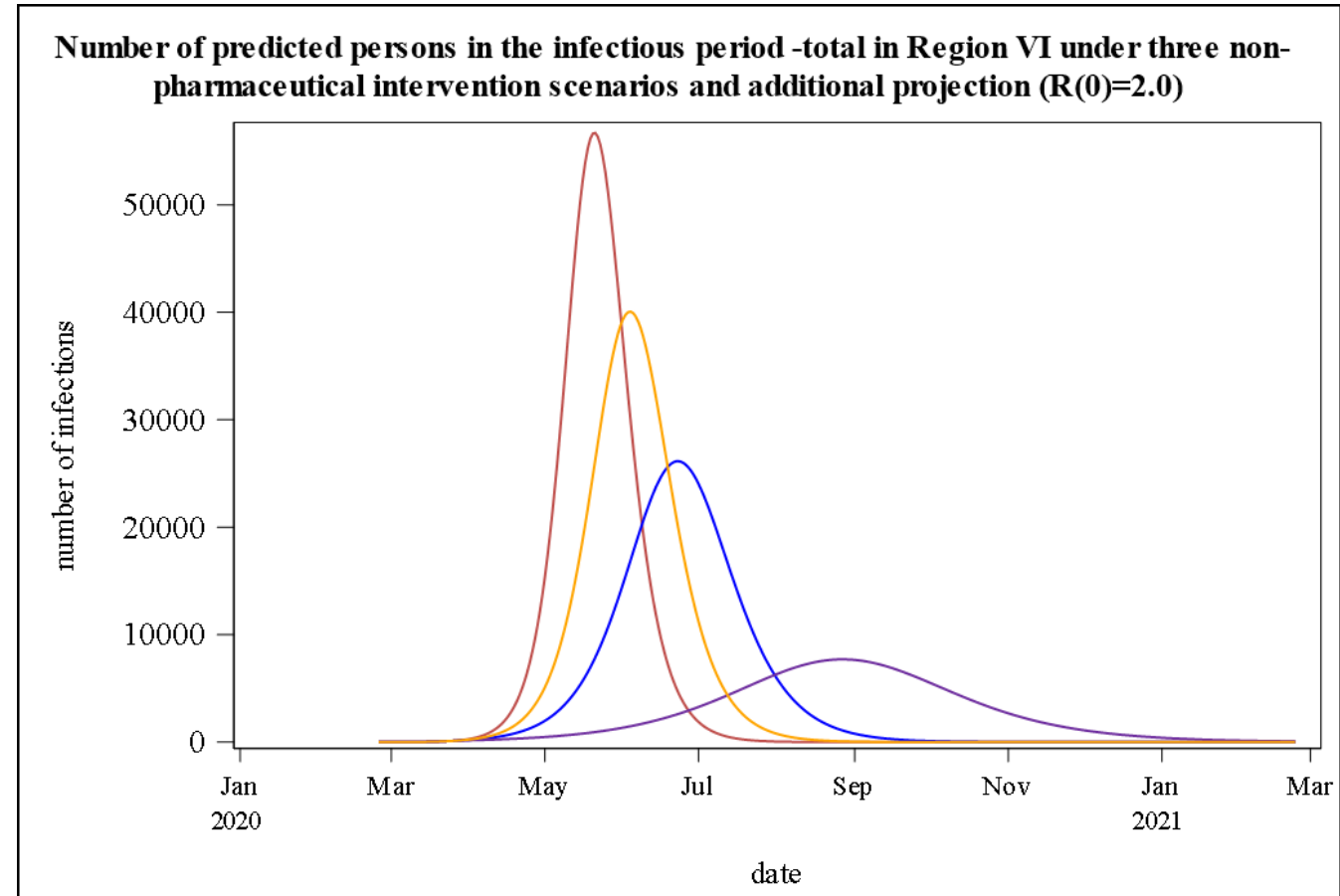
\*Actual COVID+ hospitalization line may be an undercount because it does not include PUIs.

For example, on 4/15 there were an additional **20 COVID PUIs** in the hospital and **1 COVID PUI** on a vent in Region 5.

# Region 6:

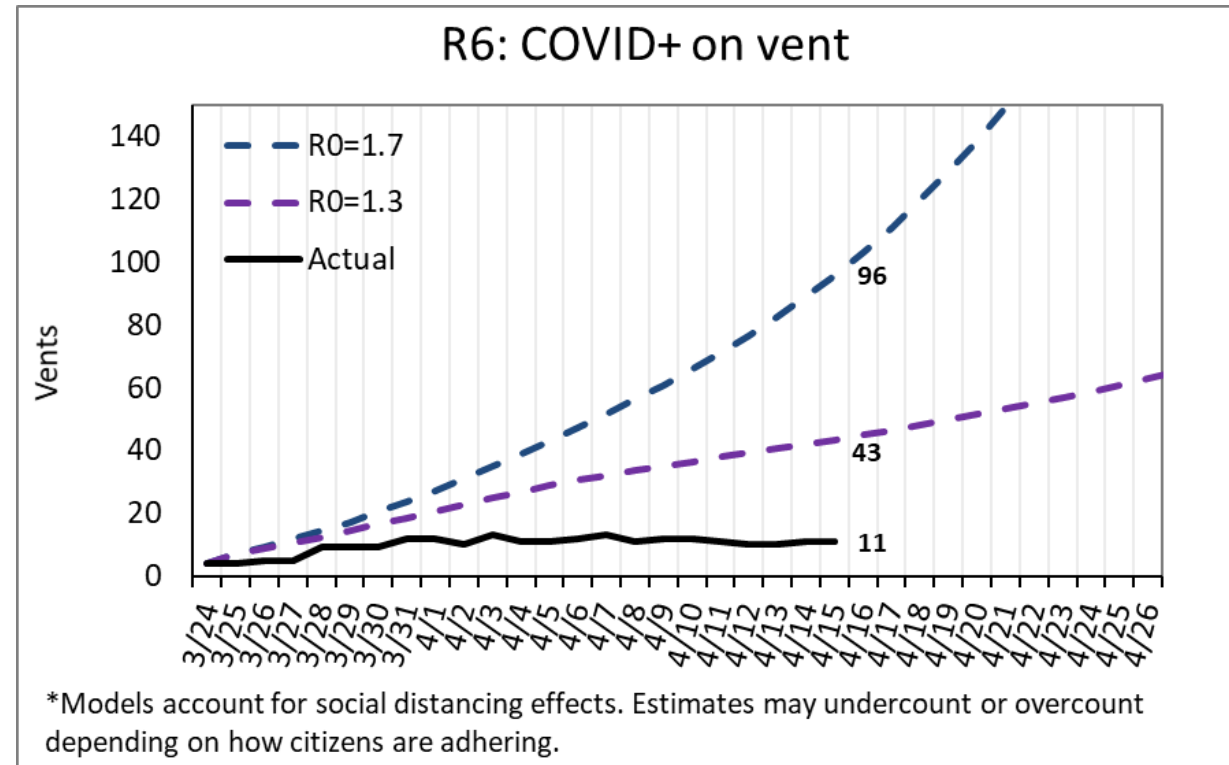
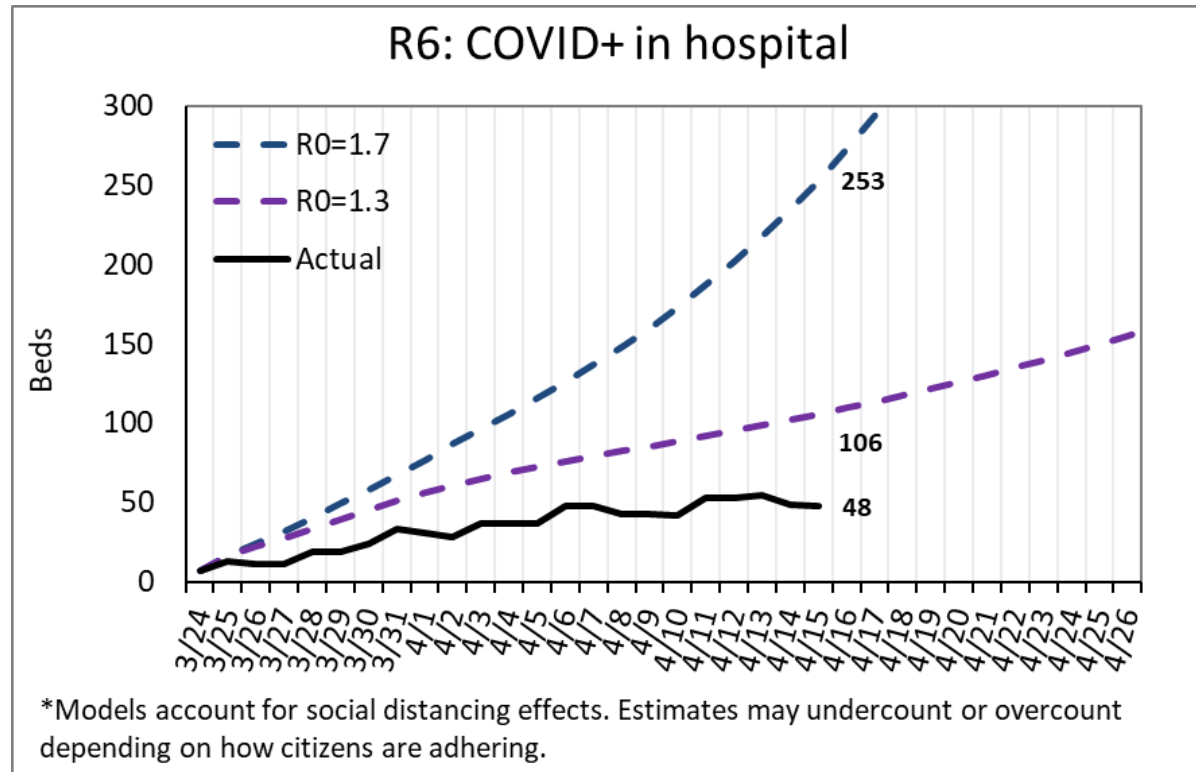
## Infectious persons per day under four scenarios

- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

# Hospitalization/Vent Projections – Region 6



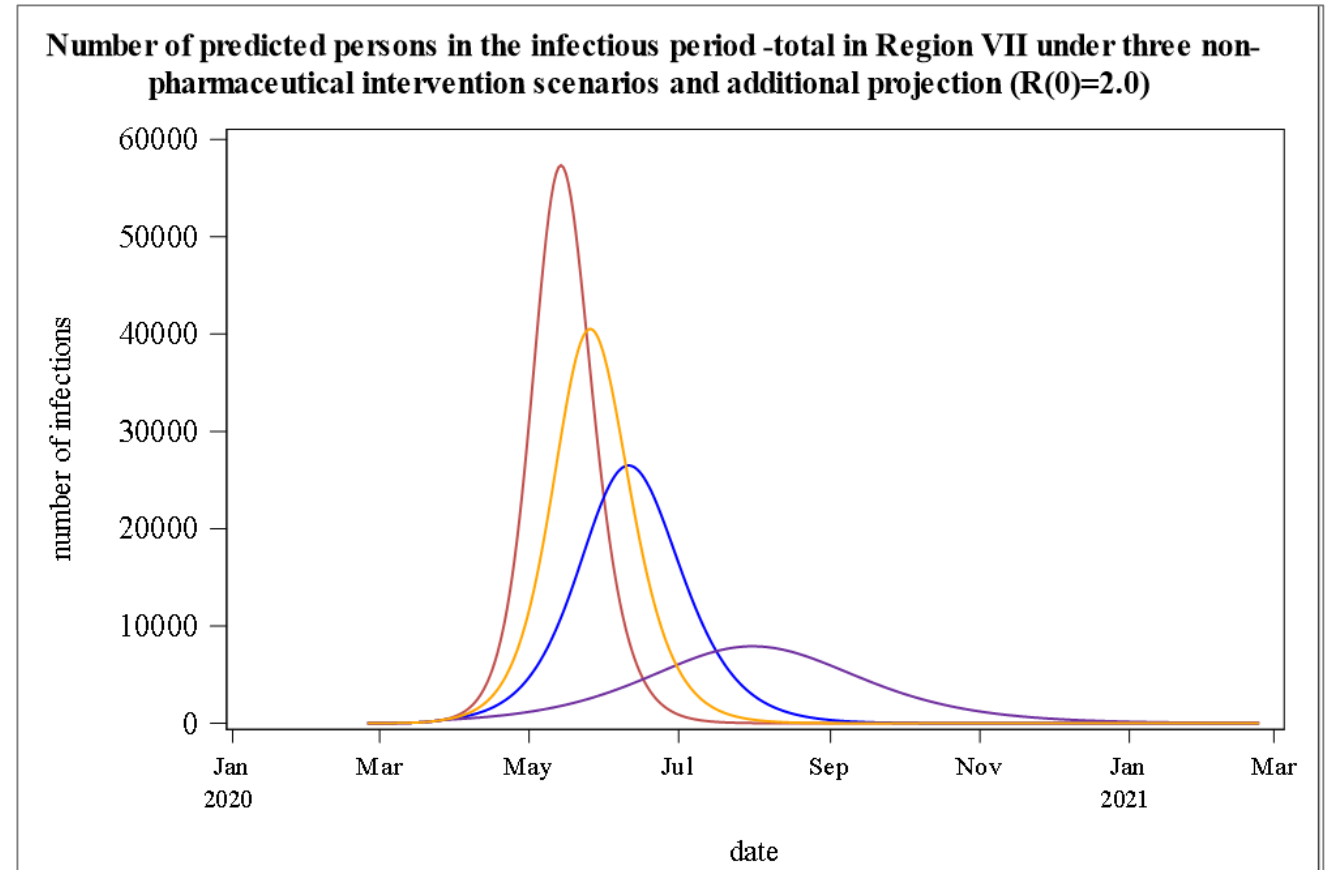
\*Actual COVID+ hospitalization line may be an undercount because it does not include PUIs.

For example, on 4/15 there were an additional **44 COVID PUIs** in the hospital and **4 COVID PUIs** on vents in Region 6.

# Region 7:

## Infectious persons per day under four scenarios

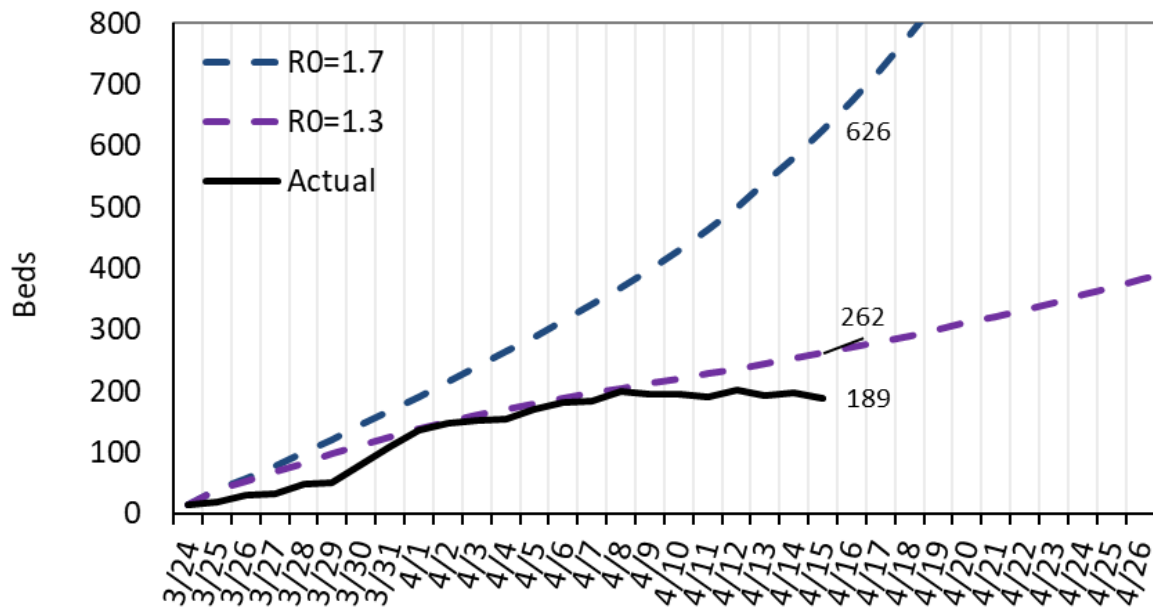
- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

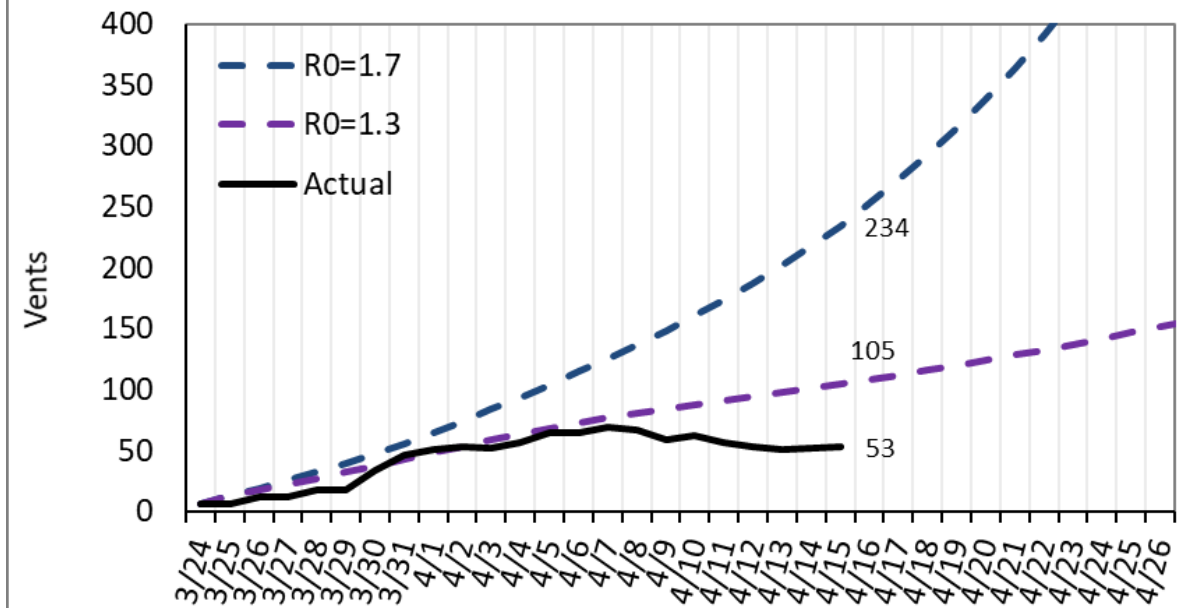
# Hospitalization/Vent Projections – Region 7

R7: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R7: COVID+ on vent



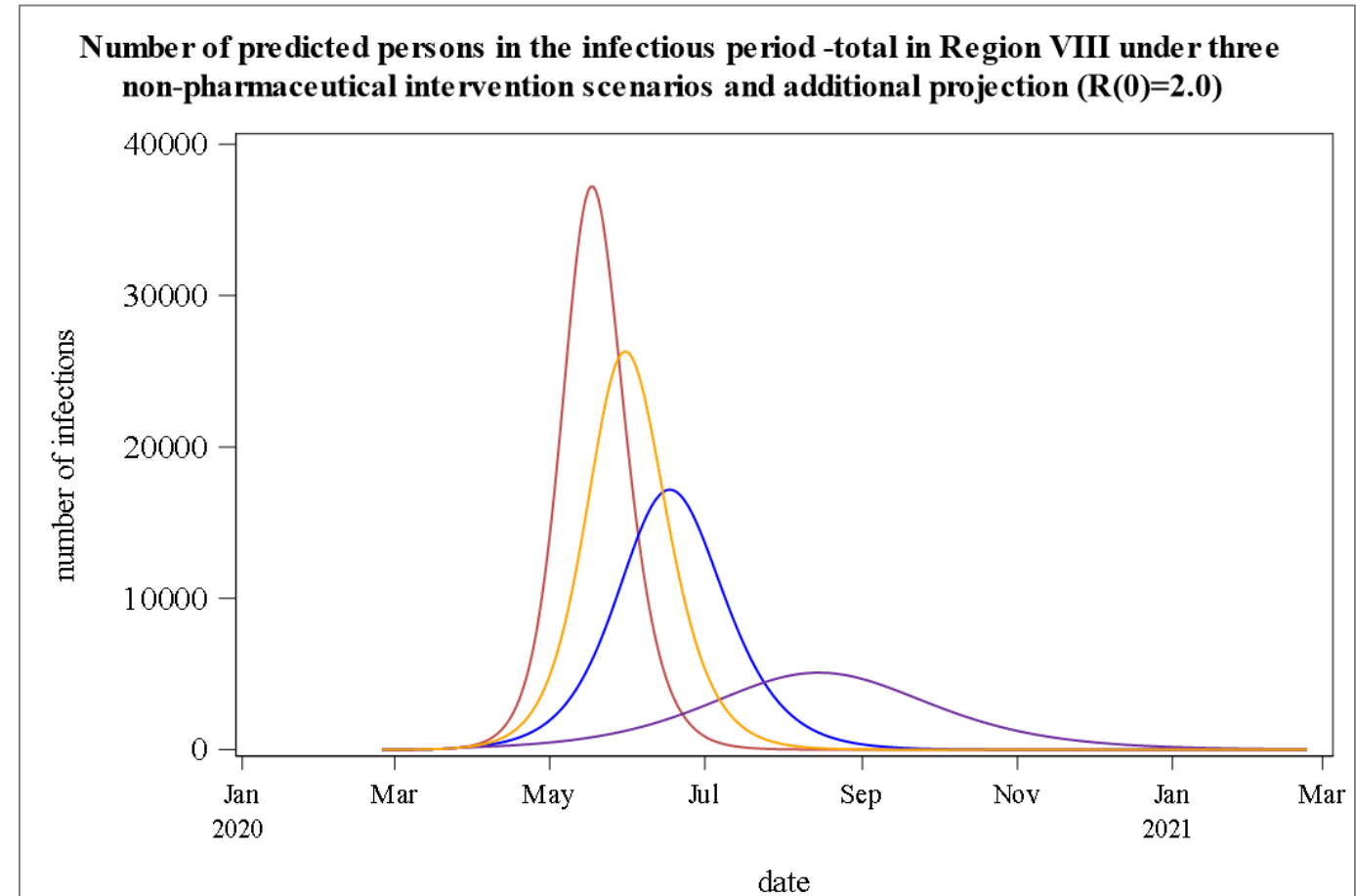
\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

\*Actual COVID+ hospitalization line may be an undercount because it does not include PUIs. For example, on 4/15 there were an additional **60 COVID PUIs** in the hospital in Region 7.

# Region 8:

## Infectious persons per day under four scenarios

- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)

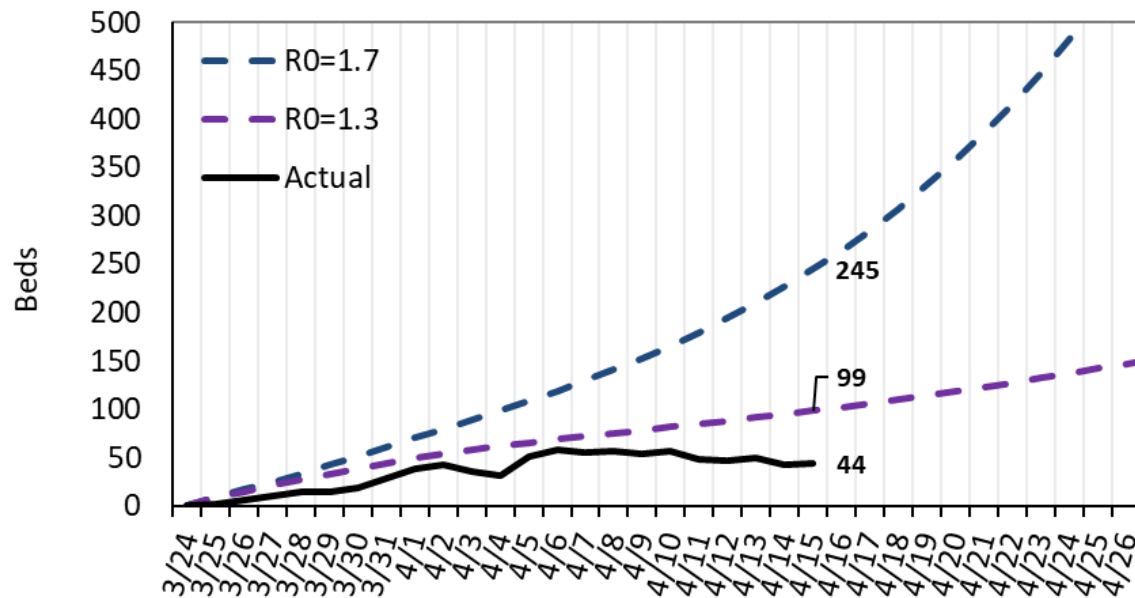


Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.



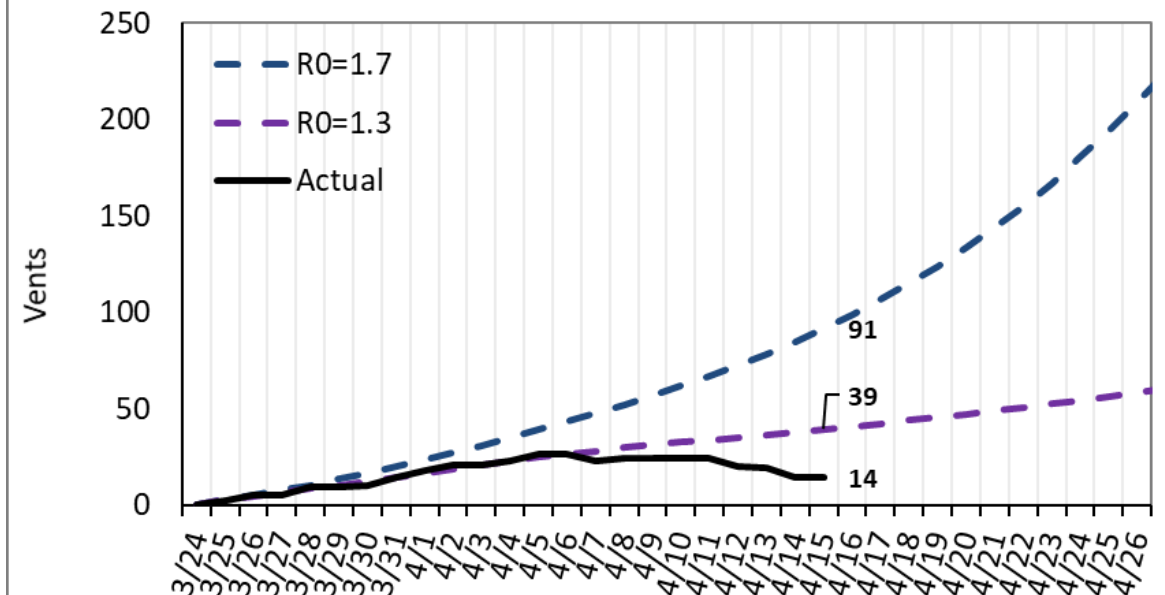
# Hospitalization/Vent Projections – Region 8

R8: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R8: COVID+ on vent



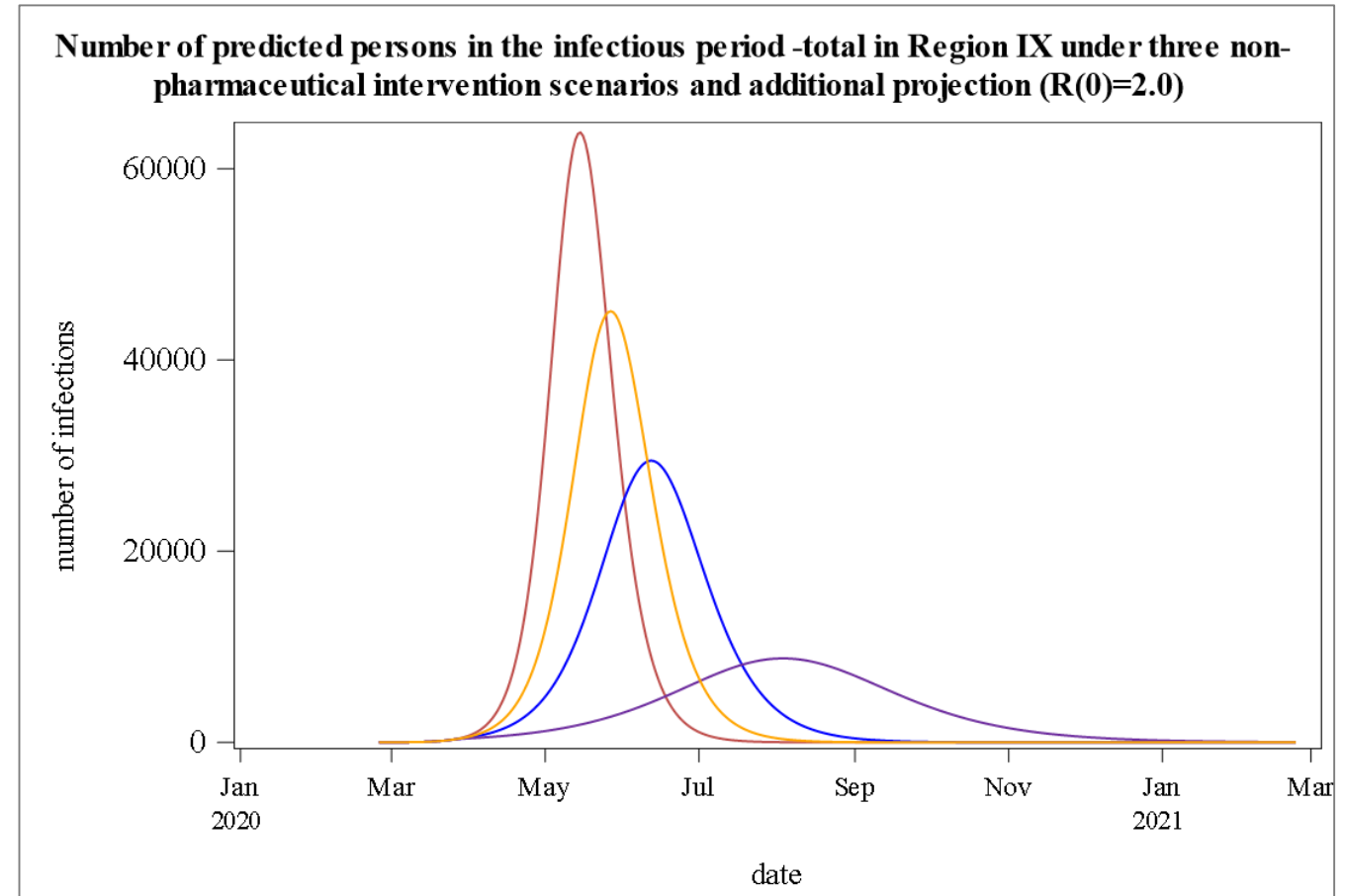
\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

\*Actual COVID+ hospitalization line may be an undercount because it does not include PUIs.

For example, on 4/15 there were an additional **98 COVID PUIs** in the hospital and **12 COVID PUIs** on vents in Region 8.

# Region 9: Infectious persons per day under four scenarios

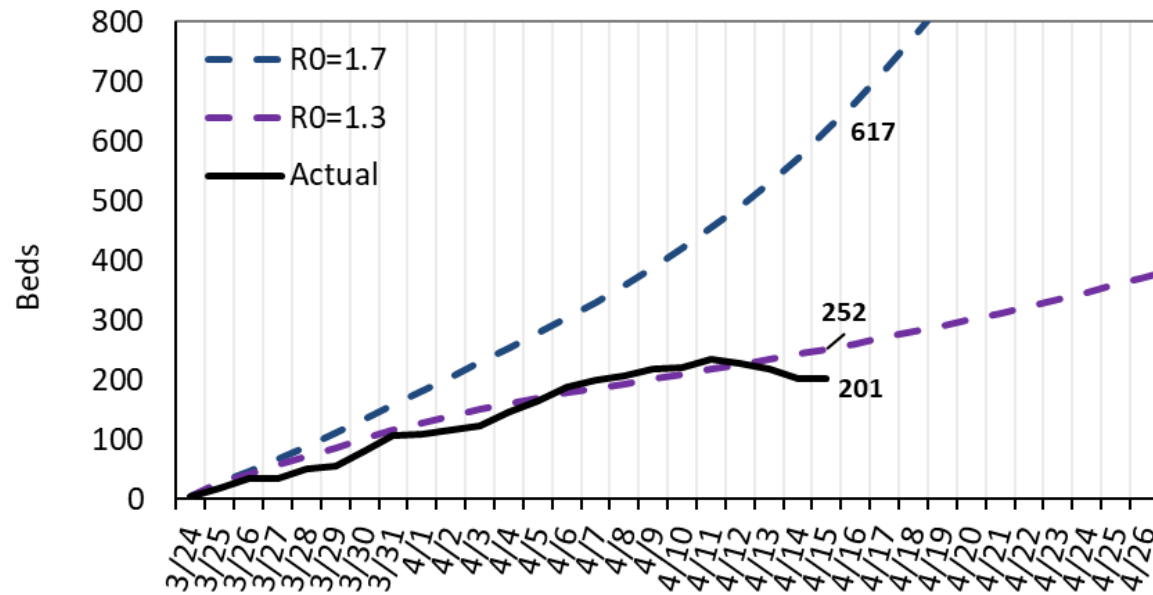
- $R_0 = 2.4$  (baseline)
- $R_0 = 2.0$
- $R_0 = 1.7$  (effective social distancing)
- $R_0 = 1.3$  (shelter in place)



Note: These projection curves illustrate infection and hospitalization scenarios under different levels of social distancing interventions. They are not predictions of the future.

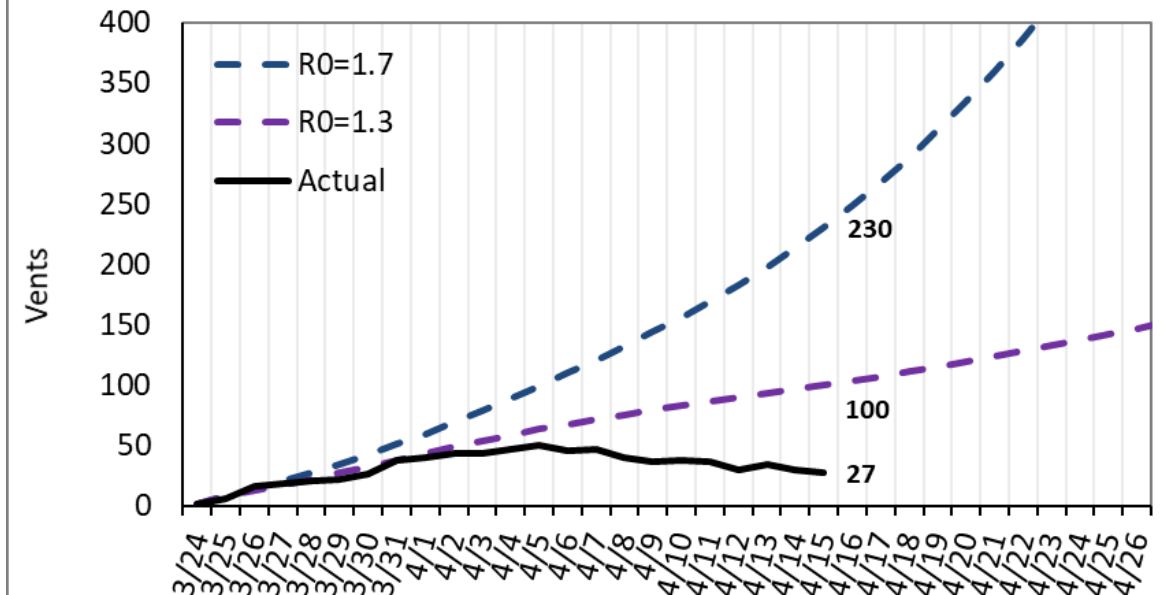
# Hospitalization/Vent Projections – Region 9

R9: COVID+ in hospital



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

R9: COVID+ on vent



\*Models account for social distancing effects. Estimates may undercount or overcount depending on how citizens are adhering.

\*Actual COVID+ hospitalization line may be an undercount because it does not include PUIs.

For example, on 4/15 there were an additional **52 COVID PUIs** in the hospital and **1 COVID PUI** on a vent in Region 9.